

## YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES CHEMISTRY DEPARTMENT COURSE PLAN

4004								
Course Code	Course Title		Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECTS	Course Language
KİM482	Biochemistry Laborate	ory -II	Spring	C	0+4+4	4	4	English
			COURSE	INFORMA	TION			
Course (	Catalog Description							
The Aim	of the Course		• .		quantitative deterning in biochemistry o		s for the a	application
Course I	_evel	L	isans					
Course I	_anguage	Е	nglish					
Teaching	g method	()	X) Formal	( ) Onlii	ne () Mixed/Hyb	rid		
Teaching Staff of the Course			Prof. Dr. Mustafa SAÇMACI Prof. Dr. Ş.Hakan ÜNGÖREN Prof. Dr. İrfan KOCA Asst. Prof. İbrahim Evren KIBRIZ					
Prerequi Course	site Course(s) of the	-						
	Outcomes from the	-(	Gains know	vledge abo	ut laboratory safet	V.		
Course			<ul> <li>Gains the ability to purify, analyze and interpret different proteins i foods.</li> <li>Gains the ability to analyze and interpret enzyme activity.</li> <li>Gains knowledge about urine determination methods.</li> <li>Learns the determination of blood groups</li> </ul>					·
			CC	OURSE CO	NTENT			
Week 7	Гheory		7		ractice/Laboratory	,		
_				E	xperiment to identif	y choleste	erol in the	brain with the
2					salkowski method DETERMINATION C BLOOD	F HEMO	GLOBIN I	N THE
3					dentifying proteins w	vith the bit	uret test	
4				E	extraction of casein t	from milk		
5				В	Bradford Protein Analysis			
6				S	SEPARATION OF G SERUM BY PRECIP SULFATE			
7				C	sazon Formation a	nd Detern	nination of	Sugars
8				F	rotein Analysis			
9				L	ipid Analysis			
10				ls	solation and Determ	ination of	Vitamins	
11				E	nzyme Activity Ana	lyzes		
12				L	Irine Analysis			



13	Determination of Blood Groups	
14	General Review and Report presentation	
15	15 Final Exam	

## **Course Learning Resources**

- 1. Champe PC, Harvey RA, Ferrier DR (2010). Biochemistry (Lippincott's Illustrated Reviews Series). Lippincott Williams & Wilkins.
- 2. Sözbilir NB, Bayşu N. (2008). Biyokimya. Öncü Basımevi, Ankara

**Work Activities During the Semester** 

Number	Contribution
1	%30

Homework	1	%30
Practice		
Forum/ Discussion Application		
Short Exam (Quiz)	2	%35
Ratio Of Semester Studies To Semester Success (%)		%40
Ratio of Final to Success (%)		%60

**ASSESSMENT CRITERIA** 

**Total** %100

COURSE WORKLOAD	IABLE
Total Weeks	Du

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload	
Theory		1		
Practice	14	4	56	
Forum/ Discussion Application				
Reading	4	4	16	
Internet Scanning, Library Study	2/			
Material Design, Application				
Report Preparation	Report Preparation 14 1		14	
Presentation Preparation	7)			
Presentation				
Final Exam	1	2	2	
Preparation for the Final Exam	4	3	12	
Other(s) (Specify:)				
Total Workload				
Total Workload / 25 (s)			100/25	
ECTS Credits of the Course			100/25≌4	
Note: The workload of the course will be dote	rmined by the instructor on			

Note: The workload of the course will be determined by the instructor on a per-course basis.

I EARNING	CONTRIBILIT	ION I FVFI S

	No Program Learning Outputs					
No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.					Х



2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments,				Х
	produces solutions against problems encountered in the laboratory.				
3	Calculates and processes chemical information and data.		X		
4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.			X	
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.				X
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.			Х	
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.		X		
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.	Х			
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.		X		
10	Can use computer software and information and communication technologies at the level required by the field.	Х			
11	Adapts and transfers the knowledge gained in the field to secondary education.		Х		
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.	Х			
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.				Х
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.		X		
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.	Х			

